Bruno Bellomo

List of Publications by Year
in descending order

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51	2,533	304368	205818
papers	citations	22 h-index	48 g-index

51	51	51	1073
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Non-Markovian Effects on the Dynamics of Entanglement. Physical Review Letters, 2007, 99, 160502.	2.9	695
2	Entanglement dynamics of two independent qubits in environments with and without memory. Physical Review A, 2008, 77, .	1.0	247
3	DYNAMICS OF QUANTUM CORRELATIONS IN TWO-QUBIT SYSTEMS WITHIN NON-MARKOVIAN ENVIRONMENTS. International Journal of Modern Physics B, 2013, 27, 1345053.	1.0	218
4	Entanglement trapping in structured environments. Physical Review A, 2008, 78, .	1.0	193
5	Revival of quantum correlations without system-environment back-action. Physical Review A, 2012, 85, .	1.0	164
6	Genuine Quantum and Classical Correlations in Multipartite Systems. Physical Review Letters, 2011, 107, 190501.	2.9	111
7	Unified view of correlations using the square-norm distance. Physical Review A, 2012, 85, .	1.0	79
8	Dynamics of geometric and entropic quantifiers of correlations in open quantum systems. Physical Review A, 2012, 86, .	1.0	78
9	Quantum thermal machines with single nonequilibrium environments. Physical Review A, 2015, 91, .	1.0	53
10	Quantum synchronization as a local signature of super- and subradiance. Physical Review A, 2017, 95, .	1.0	52
11	Connection among entanglement, mixedness, and nonlocality in a dynamical context. Physical Review A, 2010, 81, .	1.0	51
12	DYNAMICS AND EXTRACTION OF QUANTUM DISCORD IN A MULTIPARTITE OPEN SYSTEM. International Journal of Quantum Information, 2011, 09, 1665-1676.	0.6	46
13	Creation and protection of entanglement in systems out of thermal equilibrium. New Journal of Physics, 2013, 15, 113052.	1.2	41
14	Entanglement degradation in the solid state: Interplay of adiabatic and quantum noise. Physical Review A, 2010, 81, .	1.0	40
15	Two-qubit entanglement dynamics for two different non-Markovian environments. Physica Scripta, 2010, T140, 014014.	1.2	39
16	Dynamics of non-classically-reproducible entanglement. Physical Review A, 2008, 78, .	1.0	37
17	Long-Time Preservation of Nonlocal Entanglement. Advanced Science Letters, 2009, 2, 459-462.	0.2	36
18	Dynamics of correlations due to a phase-noisy laser. Physica Scripta, 2012, T147, 014004.	1.2	33

#	Article	IF	Citations
19	Quantum systems in a stationary environment out of thermal equilibrium. Physical Review A, 2013, 87, .	1.0	31
20	Steady entanglement out of thermal equilibrium. Europhysics Letters, 2013, 104, 10006.	0.7	31
21	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>N</mml:mi></mml:math> identical particles and one particle to entangle them all. Physical Review A, 2017, 96, .	1.0	28
22	Entanglement dynamics of two independent cavity-embedded quantum dots. Physica Scripta, 2011, T143, 014004.	1.2	26
23	Activating remote entanglement in a quantum network by local counting of identical particles. Physical Review A, 2019, 99, .	1.0	21
24	A tomographic approach to non-Markovian master equations. Journal of Physics A: Mathematical and Theoretical, 2010, 43, 395303.	0.7	20
25	Nonequilibrium dissipation-driven steady many-body entanglement. Physical Review A, 2015, 91, .	1.0	17
26	Reconstruction of Markovian master equation parameters through symplectic tomography. Physical Review A, 2009, 80, .	1.0	15
27	Dynamics of an elementary quantum system in environments out of thermal equilibrium. Europhysics Letters, 2012, 100, 20006.	0.7	15
28	Power maximization of two-stroke quantum thermal machines. Physical Review A, 2021, 103, .	1.0	14
29	Reconstruction of time-dependent coefficients: A check of approximation schemes for non-Markovian convolutionless dissipative generators. Physical Review A, 2010, 82, .	1.0	12
30	Thermal Transistor Effect in Quantum Systems. Physical Review Applied, 2021, 16, .	1.5	12
31	An optimized Bell test in a dynamical system. Physics Letters, Section A: General, Atomic and Solid State Physics, 2010, 374, 3007-3011.	0.9	9
32	Microscopic and phenomenological models of driven systems in structured reservoirs. Physical Review A, 2020, 101, .	1.0	9
33	Driven quantum harmonic oscillators: A working medium for thermal machines. AVS Quantum Science, 2022, 4, 012001.	1.8	8
34	Initial correlations effects on decoherence at zero temperature. Journal of Physics A, 2005, 38, 10203-10216.	1.6	6
35	Loss of coherence and dressing in QED. Physical Review A, 2006, 74, .	1.0	6
36	Frictional quantum decoherence. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 9437-9453.	0.7	6

#	Article	IF	Citations
37	Simple scheme for extracting work with a single bath. Physical Review E, 2019, 100, 032143.	0.8	5
38	Two-photon-interaction effects in the bad-cavity limit. Physical Review A, 2022, 105, .	1.0	5
39	DECAY OF NONLOCALITY DUE TO ADIABATIC AND QUANTUM NOISE IN THE SOLID STATE. International Journal of Quantum Information, 2011, 09, 63-71.	0.6	4
40	Protecting operations on qudits from noise by continuous dynamical decoupling. Physical Review Research, 2021, 3, .	1.3	4
41	Generation of minimum-energy entangled states. Physical Review A, 2021, 103, .	1.0	4
42	Distillation by repeated measurements: Continuous spectrum case. Physical Review A, 2010, 82, .	1.0	3
43	Wave Packet Decoherence in Momentum Space. AIP Conference Proceedings, 2004, , .	0.3	2
44	Extraction of a squeezed state in a field mode via repeated measurements on an auxiliary quantum particle. Physical Review A, 2009, 80, .	1.0	2
45	Exploring the limits of the generation of nonclassical states of spins coupled to a cavity by optimal control. Physical Review A, 2022, 105, .	1.0	2
46	Thwarted dynamics by partial projective measurements. Journal of Russian Laser Research, 2009, 30, 451-457.	0.3	1
47	Extraction of Work via a Thermalization Protocol. Proceedings (mdpi), 2019, 12, 22.	0.2	1
48	Energy bounds for entangled states. Physical Review Research, 2020, 2, .	1.3	1
49	Spatial Decoherence in QED. Open Systems and Information Dynamics, 2006, 13, 393-402.	0.5	0
50	Dissipation and decoherence in Brownian motion. Journal of Physics: Conference Series, 2007, 67, 012028.	0.3	0
51	Indistinguishability as a quantum information resource by localized measurements. , 2019, , .		0